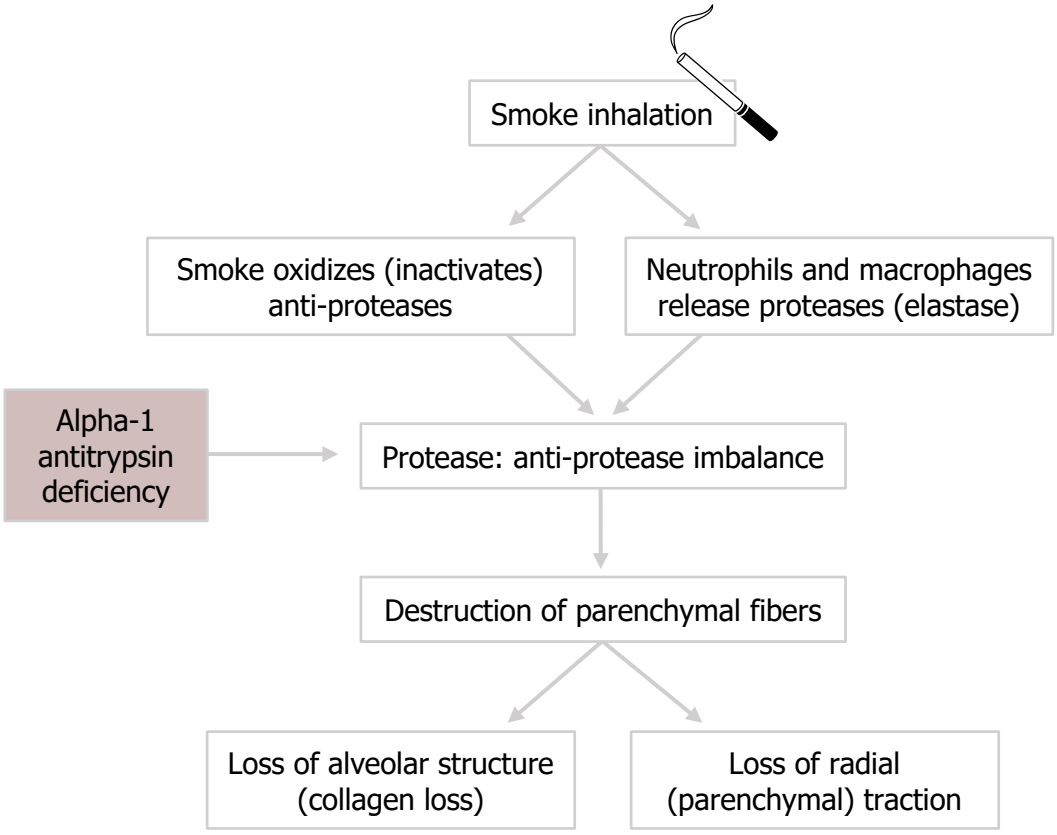
Smoke inhalation
Smoke oxidizes (inactivates) anti-proteases
Neutrophils and macrophages release proteases (elastase)
Alpha-1 antitrypsin deficiency
Protease: anti-protease imbalance
Destruction of parenchymal fibers
Loss of alveolar structure (collagen loss)
Loss of radial (parenchymal) traction